N.	CRF Expris Corrected by the STIC System Staticn Processing Date: 7-5-0 Edited by: M. SPEWCENC (STIC of STIC of
, ,	Changed a file from non-ASCII to ASCII
	Changed the margins in cases where the sequence text was was professional to the next line.
	Edited a format error in the Current Application Data section specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
E	dited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Citanged the spelling of a mandatory field (the headings or subheadings), specifically:
c	corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
l	nserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
(	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
_	Deleted: non-ASCII "garbage" at the beginning end of files; secretary initials/filename at end of files page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (erroduce to a Patentin bug). Sequences corrected:
	dua lo a Patentin bud). Sequences correctes.

<sup>\*</sup>Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



PCT10

RAW SEQUENCE LISTING DATE: 07/05/2002 PATENT APPLICATION: US/10/019,817 TIME: 11:00:40

Input Set : A:\ptoms.txt

Output Set: N:\CRF3\07052002\J019817.raw

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3 <110> APPLICANT: Soci,t, des Produits Nestl, S.A.
      5 <120> TITLE OF INVENTION: The Lactose operon of Lactobacillus delbrueckii and its
             use for controlling gene transcription and/or
             expression in bacterial cells
      9 <130> FILE REFERENCE: 112843-039
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/019,817
C--> 12 <141> CURRENT FILING DATE: 2002-05-13
    14 <150> PRIOR APPLICATION NUMBER: 99112471.0
    15 <151> PRIOR FILING DATE: 1999-06-30
    17 <160> NUMBER OF SEQ ID NOS: 22
    19 <170> SOFTWARE: PatentIn Ver. 2.1
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 1435
    23 <212> TYPE: DNA
    24 <213> ORGANISM: Lactobacillus delbrueckii
    26 <400> SEOUENCE: 1
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    28 actgaataat gctacaattg acttaacagc ataaaatttt agtaaaagcg agtgaagaag 120
    29 atggcaacga tcagagaagt ggccaaggca gccggcgtgt cgccagcgac ggtttcccgg 180
    30 gtcttgaact atgaccagac cctgtcggtc aatgaggcaa cgcggcagaa gatattcaaa 240
    31 actgctgaag ccatgcacta ccataagagc cggaagacca gaaagagcaa gcaaaagcgc 300
    32 ctggcgatct gcctgtggtg tgaccaagac caggagatca aggacctcta ttactattca 360
    33 atcagaacca gcgcgcaagc agaggccaag aagcagggac ttgaaagcca ggtcatttat 420
    34 coggetgate etttgeecga teeagetget ttaageggga ttateatgat tggetaecag 480
    35 cagtattege cagacegett gaatgaagte aaaaagtetg geetgeeeet ggtetttgte 540
    36 gatactgaca cettaaaatt gggttaetge teagttgtgg etgaetttgg eeaggeeatg 600
    37 caggaggege tagaggtett etgggggeag ggeagggage ggategeeet tttggatggt 660
    38 gatttggaca gtaattttga taaaaacaac ttggtcgact tccgcttccg cgattataag 720
    39 aagageeteg eggeeegegg eeagtaegae eeggaettag tetatgttgg aaaetteaet 780
    40 cogcaatotg gotatgaago cattaaagaa gotottaagt coggotoott coogaaagoo 840
    41 ttgattgegg ctaatgaege catggetatt ggageattga aggeetttaa agaagetgga 900
    42 attaaagtcc cagaggacgt cagtctgatt tettttaatg acacaacggc agcagaattt 960
    43 gecaacecag cettgaetag egtaeatgta gagaeecage agatgggeeg agecagegte 1020
    44 aaggtcatga aagacctgct ggatgatgat gaagccggca cttacaaggt cactttccca 1080
    45 acaaaactcg tttaccggga atcttgccca aaagcataag ggcatagagc ataataacag 1140
    46 caaagaaata gettggagat tgattttete caagetattt ttegtatata ttatggetge 1200
    47 attetgttga teattettgg gaatgggaca getteaegaa egtggteeag ettgeagate 1260
    48 caggcaatga cccgttcaaa gcccatcccg aagccggagt gcggcacgtg ccgtactttt 1320
    49 ctcagggtcc caggtaccca ggagtagtcg tcccagggtt gaggcccqct tcttcqattt 1380
    50 gegeetteaa ggtgtegtag teagetteae gttetgatee geeatgattt eeegt
    53 <210> SEO ID NO: 2
    54 <211> LENGTH: 332
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55 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 07/05/2002 PATENT APPLICATION: US/10/019,817 TIME: 11:00:40

Input Set : A:\ptoms.txt

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56 <213> ORGANISM: Lactobacillus delbrueckii
58 <400> SEQUENCE: 2
59 Met Ala Thr Ile Arg Glu Val Ala Lys Ala Ala Gly Val Ser Pro Ala
                                        10
62 Thr Val Ser Arg Val Leu Asn Tyr Asp Gln Thr Leu Ser Val Asn Glu
               20
                             .
                                   25
65 Ala Thr Arg Gln Lys Ile Phe Lys Thr Ala Glu Ala Met His Tyr His
            35
                                40
68 Lys Ser Arg Lys Thr Arg Lys Ser Lys Gln Lys Arg Leu Ala Ile Cys
                            55
71 Leu Trp Cys Asp Gln Asp Gln Glu Ile Lys Asp Leu Tyr Tyr Tyr Ser
                       70
74 Ile Arg Thr Ser Ala Gln Ala Glu Ala Lys Lys Gln Gly Leu Glu Ser
77 Gln Val Ile Tyr Pro Ala Asp Pro Leu Pro Asp Pro Ala Ala Leu Ser
                                   105
              100
80 Gly Ile Ile Met Ile Gly Tyr Gln Gln Tyr Ser Pro Asp Arg Leu Asn
                               120
           115
83 Glu Val Lys Lys Ser Gly Leu Pro Leu Val Phe Val Asp Thr Asp Thr
      130
                           135
86 Leu Lys Leu Gly Tyr Cys Ser Val Val Ala Asp Phe Gly Gln Ala Met
                      150
                                           155
89 Gln Glu Ala Leu Glu Val Phe Trp Gly Gln Gly Arg Glu Arg Ile Ala
                  165
                                       170
92 Leu Leu Asp Gly Asp Leu Asp Ser Asn Phe Asp Lys Asn Asn Leu Val
              180
                                   185
                                                       190
95 Asp Phe Arg Phe Arg Asp Tyr Lys Lys Ser Leu Ala Ala Arg Gly Gln
                              200
98 Tyr Asp Pro Asp Leu Val Tyr Val Gly Asn Phe Thr Pro Gln Ser Gly
                           215
101 Tyr Glu Ala Ile Lys Glu Ala Leu Lys Ser Gly Ser Phe Pro Lys Ala
                                            235
102 225
                        230
104 Leu Ile Ala Ala Asn Asp Ala Met Ala Ile Gly Ala Leu Lys Ala Phe
                   245
                                        250
107 Lys Glu Ala Gly Ile Lys Val Pro Glu Asp Val Ser Leu Ile Ser Phe
                                    265
               260
110 Asn Asp Thr Thr Ala Ala Glu Phe Ala Asn Pro Ala Leu Thr Ser Val
           275
                                280
113 His Val Glu Thr Gln Gln Met Gly Arg Ala Ser Val Lys Val Met Lys
                            295
                                                300
114
       290
116 Asp Leu Leu Asp Asp Asp Glu Ala Gly Thr Tyr Lys Val Thr Phe Pro
                        310
                                            315
117 305
119 Thr Lys Leu Val Tyr Arg Glu Ser Cys Pro Lys Ala
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 6
125 <212> TYPE: DNA
126 <213> ORGANISM: Lactobacillus delbrueckii
128 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING DATE: 07/05/2002 PATENT APPLICATION: US/10/019,817 TIME: 11:00:40

Input Set : A:\ptoms.txt

129	tgttta	6
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135	<213> ORGANISM: Lactobacillus delbrueckii	
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138	gtaaaca	7
141	<210> SEQ ID NO: 5	
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144	<213> ORGANISM: Lactobacillus delbrueckii	
146	<400> SEQUENCE: 5	_
147	gtaaacg	7
150	<210> SEQ ID NO: 6	
151	<211> LENGTH: 17	
	<212> TYPE: DNA	
153	<213> ORGANISM: Lactobacillus delbrueckii	
155	<400> SEQUENCE: 6	
156	cgcctggtga ttcagcc	17
159	<210> SEQ ID NO: 7	
160	<211> LENGTH: 20	
	<212> TYPE: DNA	
162	<213> ORGANISM: Lactobacillus delbrueckii	
164	<400> SEQUENCE: 7	
165	agctttacgg ggaagtcggg	20
168	<210> SEQ ID NO: 8	
169	<211> LENGTH: 15	
	<212> TYPE: DNA	
171	<213> ORGANISM: Lactobacillus delbrueckii	
173	<400> SEQUENCE: 8	
174	tgtaagcgta aacaa	15
177	<210> SEQ ID NO: 9	
178	<211> LENGTH: 98	
	<212> TYPE: DNA	
	<213> ORGANISM: Lactobacillus delbrueckii	
	<400> SEQUENCE: 9	
	tgtttactaa aaatattttg gtaaagcatc ttgatttgtt tagtaaacgg gtctatactg	
	taagcgtaaa caagttagaa cacctaaagg agaaaatc	98
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188	<211> LENGTH: 25	
	<212> TYPE: DNA	
190	<213> ORGANISM: Lactobacillus delbrueckii	
	<400> SEQUENCE: 10	
	atattactgc agagtaaaag cgagt	25
	<210> SEQ ID NO: 11	
	<211> LENGTH: 25	
	<212> TYPE: DNA	
	<213> ORGANISM: Lactobacillus delbrueckii	
201	<400> SEQUENCE: 11	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,817

DATE: 07/05/2002
TIME: 11:00:40

Input Set : A:\ptoms.txt

		25
	ataaataagc ttacagaatg cagcc	23
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	<211> LENGTH: 27	
	<212> TYPE: DNA	
	<213> ORGANISM: Lactobacillus delbrueckii	
	<400> SEQUENCE: 14	27
	atattagaat tcaagaggct atatcgc	21
	<210> SEQ ID NO: 15	
233	<211> LENGTH: 18	
234	<212> TYPE: DNA	
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	<211> LENGTH: 25	
243	<212> TYPE: DNA	
	<213> ORGANISM: Lactobacillus delbrueckii	
	<400> SEQUENCE: 16	25
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	<210> SEQ ID NO: 17	
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252	<212> TYPE: DNA	
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259	<210> SEQ ID NO: 18	
260	<211> LENGTH: 21	
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	<213> ORGANISM: Lactobacillus delbrueckii	
	<400> SEQUENCE: 18	21
265	ggtgaatgtg gcaacgatca g	21
268	<210> SEQ ID NO: 19	
	<211> LENGTH: 25	
270	<212> TYPE: DNA	
	<213> ORGANISM: Lactobacillus delbrueckii	
273	<400> SEQUENCE: 19	۸.
274	atattactgc agacagaatg cagcc	25

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,817

DATE: 07/05/2002 TIME: 11:00:40

Input Set : A:\ptoms.txt

278 279 280 282	<210> SEQ ID NO: 20 <211> LENGTH: 25 <212> TYPE: DNA <213> ORGANISM: Lactobacillus delbrueckii <400> SEQUENCE: 20	25
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	<212> TYPE: DNA	
289	<213> ORGANISM: Lactobacillus delbrueckii	
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292	atattactcg agacagaatg cagcc	25
295	<210> SEQ ID NO: 22	
296	<211> LENGTH: 98	
	<212> TYPE: DNA	
298	<213> ORGANISM: Lactobacillus delbrueckii	
300	<400> SEQUENCE: 22	
301	tgtttactaa aaatattttg gtaaagcatc ttgatttgtt tagtaaacgg gtctatactg	60
302	taagcgtaaa caagttagaa cacctaaagg agaaaatc	98

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/019,817

DATE: 07/05/2002 TIME: 11:00:41

Input Set : A:\ptoms.txt

Output Set: N:\CRF3\07052002\J019817.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date